



FR 1600/2002

SEP 12 2002

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#18
RKO
10/10/02

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/699,679
Source: 1600
Date Processed by STIC: 9/4/02

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER
VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND
TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
Or
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Raw Sequence Listing Error Summary

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SEP 12 2002
TECH CENTER 1630/2900

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER:

09/699,679

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics
Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2 Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3 Misaligned Amino
Numbering The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4 Non-ASCII The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5 Variable Length Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 PatentIn 2.0
"bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s). Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7 Skipped Sequences
(OLD RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8 Skipped Sequences
(NEW RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence.
<210> sequence id number
<400> sequence id number
000
- 9 Use of n's or Xaa's
(NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 10 Invalid <213>
Response Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11 Use of <220> Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses.
Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12 PatentIn 2.0
"bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13 Misuse of n n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.



**Does Not Comply
Corrected Diskette Needed**

1600

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/699,679

DATE: 09/04/2002
TIME: 14:41:25

Input Set : A:\UNGR1598.ST25.txt
Output Set: N:\CRF4\09042002\I699679.raw

3 <110> APPLICANT: Unger, Evan C.
4 Shen, Dekang
5 Wu, Guanli
7 <120> TITLE OF INVENTION: Novel Targeted Compositions For Diagnostics And Therapeutic
Use
9 <130> FILE REFERENCE: UNGR1598
11 <140> CURRENT APPLICATION NUMBER: 09/699,679
12 <141> CURRENT FILING DATE: 2000-10-30
14 <150> PRIOR APPLICATION NUMBER: 09/218,660
15 <151> PRIOR FILING DATE: 1998-12-22
17 <150> PRIOR APPLICATION NUMBER: 08/660,032
18 <151> PRIOR FILING DATE: 1996-06-06
20 <150> PRIOR APPLICATION NUMBER: 08/640,464
21 <151> PRIOR FILING DATE: 1996-05-01
23 <150> PRIOR APPLICATION NUMBER: 08/497,684
24 <151> PRIOR FILING DATE: 1995-06-07
26 <160> NUMBER OF SEQ ID NOS: 24
28 <170> SOFTWARE: PatentIn version 3.1
30 <210> SEQ ID NO: 1
31 <211> LENGTH: 6
32 <212> TYPE: PRT
33 <213> ORGANISM: Artificial Sequence
35 <220> FEATURE:
36 <223> OTHER INFORMATION: Novel Sequence
38 <400> SEQUENCE: 1
40 Lys Gln Ala Gly Asp Val
41 1 5
44 <210> SEQ ID NO: 2
45 <211> LENGTH: 4
46 <212> TYPE: PRT
47 <213> ORGANISM: Artificial Sequence
49 <220> FEATURE:
50 <223> OTHER INFORMATION: Novel Sequence
52 <400> SEQUENCE: 2
54 Arg Gly Asp Ser
55 1
58 <210> SEQ ID NO: 3
59 <211> LENGTH: 6
60 <212> TYPE: PRT
61 <213> ORGANISM: Artificial Sequence
63 <220> FEATURE:
64 <223> OTHER INFORMATION: Novel Sequence
66 <400> SEQUENCE: 3
68 Gly Arg Gly Asp Ser Pro

*must explain genetic source see
error summary sheet item 11*



The type of errors shown exist throughout
the Sequence Listing. Please check subsequent
sequences for similar errors.

RAW SEQUENCE LISTING

DATE: 09/04/2002

PATENT APPLICATION: US/09/699,679

TIME: 14:41:25

Input Set : A:\UNGR1598.ST25.txt

Output Set: N:\CRF4\09042002\I699679.raw

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69 1      5
72 <210> SEQ ID NO: 4
73 <211> LENGTH: 4
74 <212> TYPE: PRT
75 <213> ORGANISM: Artificial Sequence
77 <220> FEATURE:
78 <223> OTHER INFORMATION: Novel Sequence
80 <400> SEQUENCE: 4
82 Gly Pro Arg Pro
83 1
86 <210> SEQ ID NO: 5
87 <211> LENGTH: 159
88 <212> TYPE: PRT
89 <213> ORGANISM: Artificial Sequence
91 <220> FEATURE:
92 <223> OTHER INFORMATION: Novel Sequence
94 <400> SEQUENCE: 5
96 Asn Lys Leu Ile Val Arg Arg Gly Gln Ser Phe Tyr Val Gln Ile Asp
97 1      5      10      15
100 Phe Ser Arg Pro Tyr Asp Pro Arg Arg Asp Leu Phe Arg Val Glu Tyr
101      20      25      30
104 Val Ile Gly Arg Tyr Pro Gln Glu Asn Lys Gly Thr Tyr Ile Pro Val
105      35      40      45
108 Pro Ile Val Ser Glu Leu Gln Ser Gly Lys Trp Gly Ala Lys Ile Val
109      50      55      60
112 Met Arg Glu Asp Arg Ser Val Arg Leu Ser Ile Gln Ser Ser Pro Lys
113 65      70      75      80
116 Cys Ile Val Gly Lys Phe Arg Met Tyr Val Ala Val Trp Thr Pro Tyr
117      85      90      95
120 Gly Val Leu Arg Thr Ser Arg Asn Pro Glu Thr Asp Thr Tyr Ile Leu
121      100      105      110
124 Phe Asn Pro Trp Cys Glu Asp Asp Ala Val Tyr Leu Asp Asn Glu Lys
125      115      120      125
128 Glu Arg Glu Glu Tyr Val Leu Asn Asp Ile Gly Val Ile Phe Tyr Gly
129      130      135      140
132 Glu Val Asn Asp Ile Lys Thr Arg Ser Trp Ser Tyr Gly Gln Phe
133 145      150      155
136 <210> SEQ ID NO: 6
137 <211> LENGTH: 25
138 <212> TYPE: PRT
139 <213> ORGANISM: Artificial Sequence
141 <220> FEATURE:
142 <223> OTHER INFORMATION: Novel Sequence
144 <400> SEQUENCE: 6
146 Asn Lys Leu Ile Val Arg Arg Gly Ser Phe Tyr Val Gln Ile Asp Phe
147 1      5      10      15
150 Ser Arg Pro Tyr Asp Pro Arg Arg Asp
151      20      25
154 <210> SEQ ID NO: 7

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RAW SEQUENCE LISTING

DATE: 09/04/2002

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TIME: 14:41:25

Input Set : A:\UNGR1598.ST25.txt

Output Set: N:\CRF4\09042002\I699679.raw

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155 <211> LENGTH: 41
156 <212> TYPE: PRT
157 <213> ORGANISM: Artificial Sequence
159 <220> FEATURE:
160 <223> OTHER INFORMATION: Novel Sequence
162 <400> SEQUENCE: 7
164 Asp Asp Ala Val Tyr Leu Asp Asn Glu Lys Glu Arg Glu Glu Tyr Val
165 1 5 10 15
168 Leu Asn Asp Ile Gly Val Ile Phe Tyr Gly Glu Val Asn Asp Ile Lys
169 20 25 30
172 Thr Arg Ser Trp Ser Tyr Gly Gln Phe
173 35 40
176 <210> SEQ ID NO: 8
177 <211> LENGTH: 9
178 <212> TYPE: PRT
179 <213> ORGANISM: Artificial Sequence
181 <220> FEATURE:
182 <223> OTHER INFORMATION: Novel Sequence
184 <400> SEQUENCE: 8
186 Ala Arg Arg Ser Ser Pro Ser Tyr Tyr
187 1 5
190 <210> SEQ ID NO: 9
191 <211> LENGTH: 10
192 <212> TYPE: PRT
193 <213> ORGANISM: Artificial Sequence
195 <220> FEATURE:
196 <223> OTHER INFORMATION: Novel Sequence
198 <400> SEQUENCE: 9
200 Gly Ala Gly Pro Tyr Tyr Ala Met Asp Tyr
201 1 5 10
204 <210> SEQ ID NO: 10
205 <211> LENGTH: 19
206 <212> TYPE: PRT
207 <213> ORGANISM: Artificial Sequence
209 <220> FEATURE:
210 <223> OTHER INFORMATION: Novel Sequence
212 <400> SEQUENCE: 10
214 Arg Ser Pro Ser Tyr Tyr Arg Tyr Asp Gly Ala Gly Pro Tyr Tyr Ala
215 1 5 10 15
218 Met Asp Tyr
222 <210> SEQ ID NO: 11
223 <211> LENGTH: 21
224 <212> TYPE: PRT
225 <213> ORGANISM: Artificial Sequence
227 <220> FEATURE:
228 <223> OTHER INFORMATION: Novel Sequence
230 <400> SEQUENCE: 11
232 Ala Arg Arg Ser Pro Ser Tyr Tyr Arg Tyr Asp Gly Ala Gly Pro Tyr
233 1 5 10 15

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RAW SEQUENCE LISTING

DATE: 09/04/2002

PATENT APPLICATION: US/09/699,679

TIME: 14:41:25

Input Set : A:\UNGR1598.ST25.txt

Output Set: N:\CRF4\09042002\I699679.raw

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236 Tyr Ala Met Asp Tyr
237      20
240 <210> SEQ ID NO: 12
241 <211> LENGTH: 67
242 <212> TYPE: PRT
243 <213> ORGANISM: Artificial Sequence
245 <220> FEATURE:
246 <223> OTHER INFORMATION: Novel Sequence
248 <400> SEQUENCE: 12
250 Gly Glu Glu Cys Asp Cys Gly Ser Pro Glu Asn Pro Cys Cys Asp Ala
251 1      5      10      15
254 Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Ala Asp Gly Leu Cys
255      20      25      30
258 Cys Asp Gln Cys Arg Phe Lys Arg Thr Ile Cys Arg Arg Ala Arg Gly
259      35      40      45
262 Asp Asn Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys Pro Arg
263      50      55      60
266 Asn Gly Tyr
267 65
270 <210> SEQ ID NO: 13
271 <211> LENGTH: 73
272 <212> TYPE: PRT
273 <213> ORGANISM: Artificial Sequence
275 <220> FEATURE:
276 <223> OTHER INFORMATION: Novel Sequence
278 <400> SEQUENCE: 13
280 Glu Ala Gly Glu Asp Cys Asp Cys Gly Ser Pro Ala Asn Pro Cys Cys
281 1      5      10      15
284 Asp Ala Ala Thr Cys Lys Leu Leu Pro Gly Ala Gln Cys Gly Glu Gly
285      20      25      30
288 Leu Cys Cys Asp Gln Cys Ser Phe Met Lys Lys Gly Thr Ile Cys Arg
289      35      40      45
292 Arg Ala Arg Gly Asp Asp Leu Asp Asp Tyr Cys Asn Gly Ile Ser Ala
293      50      55      60
296 Gly Cys Pro Arg Asn Pro Leu His Ala
297 65      70
300 <210> SEQ ID NO: 14
301 <211> LENGTH: 68
302 <212> TYPE: PRT
303 <213> ORGANISM: Artificial Sequence
305 <220> FEATURE:
306 <223> OTHER INFORMATION: Novel Sequence
308 <400> SEQUENCE: 14
310 Glu Ala Gly Glu Glu Cys Asp Cys Gly Thr Pro Glu Asn Pro Cys Cys
311 1      5      10      15
314 Asp Ala Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Ala Glu Gly
315      20      25      30
318 Leu Cys Cys Asp Gln Cys Arg Phe Lys Gly Ala Gly Lys Ile Cys Arg
319      35      40      45

```

RAW SEQUENCE LISTING

DATE: 09/04/2002

PATENT APPLICATION: US/09/699,679

TIME: 14:41:25

Input Set : A:\UNGR1598.ST25.txt

Output Set: N:\CRF4\09042002\I699679.raw

322 Arg Ala Arg Gly Asp Asn Pro Asp Asp Cys Thr Gly Gln Ser Ala Asp
 323 50 55 60

326 Cys Pro Arg Phe

327 65

330 <210> SEQ ID NO: 15

331 <211> LENGTH: 67

332 <212> TYPE: PRT

333 <213> ORGANISM: Artificial Sequence

335 <220> FEATURE:

336 <223> OTHER INFORMATION: Novel Sequence

338 <400> SEQUENCE: 15

340 Gly Gly Glu Cys Asp Cys Gly Ser Pro Glu Asn Pro Cys Cys Asp Ala

341 1 5 10 15

344 Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Ala Asp Gly Leu Cys

345 20 25 30

348 Cys Asp Gln Cys Arg Phe Lys Arg Thr Ile Cys Arg Ile Ala Arg Gly

349 35 40 45

352 Asp Phe Pro Asp Asp Arg Cys Thr Gly Leu Ser Ala Asp Cys Pro Arg

353 50 55 60

356 Asn Asp Leu

357 65

360 <210> SEQ ID NO: 16

361 <211> LENGTH: 8

362 <212> TYPE: PRT

363 <213> ORGANISM: Artificial Sequence

365 <220> FEATURE:

366 <223> OTHER INFORMATION: Novel Sequence

368 <400> SEQUENCE: 16

370 Arg Glu Tyr Val Val Met Trp Lys

371 1 5

374 <210> SEQ ID NO: 17

375 <211> LENGTH: 8

376 <212> TYPE: PRT

377 <213> ORGANISM: Artificial Sequence

379 <220> FEATURE:

380 <223> OTHER INFORMATION: Novel Sequence

382 <400> SEQUENCE: 17

384 Cys Arg Gly Asp Met Phe Gly Cys

385 1 5

388 <210> SEQ ID NO: 18

389 <211> LENGTH: 8

390 <212> TYPE: PRT

391 <213> ORGANISM: Artificial Sequence

393 <220> FEATURE:

394 <223> OTHER INFORMATION: Novel Sequence

396 <400> SEQUENCE: 18

398 Cys Arg Gly Asp Met Leu Arg Cys

399 1 5

402 <210> SEQ ID NO: 19

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/699,679

DATE: 09/04/2002
TIME: 14:41:26

Input Set : A:\UNGR1598.ST25.txt
Output Set: N:\CRF4\09042002\I699679.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:22; Xaa Pos. 5

VERIFICATION SUMMARY

DATE: 09/04/2002

PATENT APPLICATION: US/09/699,679

TIME: 14:41:26

Input Set : A:\UNGR1598.ST25.txt

Output Set: N:\CRF4\09042002\I699679.raw

L:460 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0